

ANNUAL ADMINISTRATIVE REPORT 2008-09



LAND USE & ENVIRONMENT CIRCLE



Forest, Environment & Wildlife Management Department
Government of Sikkim
Deorali, Gangtok
East Sikkim

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BRIEF REPORT ON ORGANIZATION OF LAND USE & ENVIRONMENT CIRCLE

Land Use & Environment (LU&E) Circle is headed by Conservator of Forests holding the additional charge of Chief Conservator of Forests - LU&E/Nodal Officer (FCA) vide O.O.No.1852/Gen/DoP dated 02/02/09. The Circle has four Divisions namely; North, East, South and West under LU&E; and one FCA division under FCA Circle which is under direct control of CCF(Env.) for land use policy, activities and execution; and to the CCF(P&A)/FCA for matter pertaining to implementation of FCA 1980 activities.

The Chief Conservator of Forests (LU&E/FCA) holds the following additional responsibilities.

- 1) Programme Coordinator (ENVIS Centre), Forests, Env. & Wildlife Management Department, Government of Sikkim.
- 2) Member Secretary (SEIAA/EAC)
- 3) Secretary (SEAC/EAC)
- 4) Regional Resource Agency for NEAC
- 5) Coordinator (NGC)
- 6) Nodal Officer (CAT/HEP)
- 7) Member Core Group, Glacier Commission Sikkim
- 8) Member, Centre Level Monitoring Committee for Teesta Low Dam-III(W.B)

The main activities of the Land Use & Environment Circle are as under:

- 1) Control and Management of Environment, Soil Conservation and River valley projects, National River Conservation Program, Implementation and Monitoring of State Forest, Land Use & Environment Policy, Wetlands Conservation, Landslide Protection & Conservation Programme, Catchment Area Treatment Plan, Water Resources Conservation, Restoration of eco-fragile landscape, protection and improvement of degraded land. Creation, updation and access of environmental information system. Environmental Education, Extension & Awareness, Environmental matters, Policy and its protection & Monitoring and all other matters pertaining to Land Use & Environment Sector.
2. The main activity of the FCA Circle is to implement the provision of the FCA 1980 and also to oversee the implementation of condition and stipulation of FCA Clearance by User Agency.

The Budget provision for Land Use & Environment Circle for the year 2008-09 is as under (Plan /Non Plan):

(Plan)

Original	=	85.00 lakhs
1 st Supplementary	=	Nil
2 nd Supplementary	=	12.00 lakhs
Total	=	97.00 lakhs

(Non-Plan)

Original	=	165.62 lakhs
1 st Supplementary	=	322.43 lakhs
2 nd Supplementary	=	9.29 lakhs
	=	497.34 lakhs

Therefore, the Plan allocation is 0.11% of the total budget and 0.59% for Non-Plan for 2008-09 with this provinces, it is difficult to achieve any physical target for over all environmental programme. The budget provided under Plan head is not adequate to create any new assets for Soil Conservation, Environmental improvement and various other areas. The budget is merely met the salaries and administrative expense of the office of the Addl. PCCF and the CCF and division offices in the districts. The division offices are also facing financial constraint due to limited financial resources allotted on the Plan and Non-Plan Heads.

The following schemes have been sponsored by Government of India under 100% CSS.

- 1) Landslide & Erosion Control in West District/ South District which were sanctioned in the year 2004-05 were completed by the end of 31st March 2009. Impact of Treatment of Land slide and Erosion Control activities in this watershed were carried out jointly by ICAR Tadong, G.B.Pant Institute, Mines, Mineral and Geology Department and Forests, Environment & Wildlife Management Department, Government of Sikkim and produced comprehensive report on Treatment of watershed projects.

The second phase of treatment of landslide and erosion control at Rangrang Watershed is under progress. The mid-term evaluation of the project approved during 2009-10.

- 2) The Conservation of Wetland is another project sponsored by Ministry of Environment & Forests, Government of India. Around 6 sensitive wetland complexes of the State have been included in the National Wetland Conservation Programme of the Government of India and funded for Conservation and Management of Wetland in four high priority categories viz: Gurudongmar in North Sikkim, Tsomgo in East Sikkim, Phedang in East Sikkim and Khecheopalri in West Sikkim District.
- 3) Under the 12th Finance Commission, the Land Use & Environment sector was allotted funds for restoration ecologically fragile landscape and improvement of ecology of the area in the forest area. Accordingly, the scheme were drawn and prepared to address the problem of land degradation, soil erosion and limitation of water sources.
- 4) The Sikkim Ecology Fund & Environment Cess Act 2008 extended in the state since 2005 and its rule were framed in 2007 and notification for implementation of the Act through Prescribed Authority notified along with operational rules in the year 2008-09 and implemented the activities approved in the rule.

The following Schemes have been implemented during the prescribed period.

a) Creation of indigenous temperate nursery in East District - 0.5 Hac.	Rs.6.98 lakhs
b) Creation of indigenous low belt nursery 0.5 Hac.	Rs.5.59 lakhs
c) Re-strengthening & improvement of ENVIS Centre	Rs.2.88 lakhs
d) Survey & authentication of various sacred groves in all district.	Rs.2.50 lakhs
e) A publication of Environmental New letter 'PANDA' 800 copies	Rs.1.50 lakhs
f) Payment of honorarium to Chairman/ Member of SEIAA/SEAC/EAC category 'B' for 8 months.	Rs.3.62 lakhs
h) Preparation and supply of eco-friendly garbage disposal bags -3000 Nos.	<u>Rs.2.00 lakhs</u>
Total	Rs 25.07 lakhs

These works have been executed by the division during 2008-09.

- ✓ Regional Museum of Natural History (RMNH) site at Marchak near Science City was finally selected and approved by the State Government for establishment of Regional Museum of Natural History (RMNH) and an expert from Government of India inspected the site and has agreed in-principle to provide fund for the same.
- ✓ Environmental Education Programme through Ministry of Environment & Forests were also organized and provided guidelines and capacity building through a media of NGC and NEAC during 2008-09.
- ✓ The Circle also made appropriate and adequate arrangements for creating awareness, sensitization and dissemination of environmental agenda enshrined in the eco calendars through mass community participation, NGO and general public.
- ✓ The Circle also brought notification for implementation of condition and stipulation accorded in the Environment Clearance for safety and improvement of environment through Multi-disciplinary Central Level Committee.

- ✓ The Circle also took part in organizing environmental related programme with G.B.Pant Institute, ICAR, WWF and Green Circle and made visible impact.
- ✓ The DFOs/ACFs have been appointed as Nodal Agency for effective coordination of implementation of State Green Mission Programme in the district and has organized with zeal and enthusiasm.
- ✓ The Divisions also implemented schemes for environmental amelioration and improvement programme under Sikkim Ecology Fund and Environment Cess.
- ✓ The year 2008-09 witnessed heavy forest fire outbreak and the division attempted to assists the Territorial Division to contend forest fire.
- ✓ Reports on Treatment of Landslide and Erosion, Management Plan, Quarterly Report, Annual Report and collection and collation of various data information on environment vis-à-vis administration were prepared and maintained under ENVIS Centre. Large information on various aspects of ecology, environment, administration and other related data can be accessed through the centre.

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Land Use & Environment

North Division

In the year 2008-09, the Land Use & Environment Cell, North Division executed the following routine and project works for the safeguard of the environment in general.

Projects & Schemes

1. A project title "***Treatment of Landslide & Soil Erosion in Rangrang Watershed Catchment of Teesta River in North Sikkim***" under the Scheme "Technology Development, Extension & Training (TDET) is granted by the Ministry of Rural Development (MoRD). The total cost of the project is Rs. 473.13 Lakh. The work executed during the fiscal year 2008-09 is as under:

Sl. No.	Item of Work	Achievement		Remarks
		Phy	Fin	
1	HP Stone Wall inside Sausage in Landslide Areas	1500 Rmt	6182065	
2	HP Stone Wall inside Sausage for River Training	800 Rmt	3457677	
3	G.I. Wire Sausage Wall with 1:2:4 P.C.C. Lining	330 Rmt	2035594	
4	Soil & Moisture Conservation	50 Ha.	1549952	
5	Afforestation (i.e. Maintenance)	160 Ha.	2828647	
6	Bamboo Plantation including maintenance	90 Ha.	1295398	
7	Bally Benching	72 Ha.	1373240	
8	Geo-Synthetics & Polymers	1400 Sq.Ft.	258806	
9	Re-grading of Slopes	900 Cum	455000	
10	Anchoring / Shoteeting	80 Mtr	Nil	
11	Supervisor	03 no.	46236	
12	Administrative Overhead		1777768	
	Total		21260383	
	Beneficiaries Contribution Share (-)			
	Grand Total		21260383	

(Rupees Two Crore Twelve Lakh Sixty Thousand and Three Hundred Eighty Three) only.

Under the project TDET the community participation is ample. They are involved right from micro planning exercises. The work plan was drawn up as per the ground survey conducted jointly by the community and the department.

2. Wetlands Management Scheme

Under this scheme, Ministry of Environment and Forest, Government of India granted financial assistance for action plan for Conservation and Management of Gurudongmar Wetland Complex in North Sikkim during the year 2008-09 vide sanction approved No. J-22012/06/2007-CS(W) of Dt: 13th October, 2008.

The physical and financial achievement is as under:

Sl. No.	Item of Work	Achievement		Remarks
		Phy.	Fin.	
1	Suvey & Demarcation	15 ha.	234387	
2	Construction of DRM Wall	3 km	395925	
3	Seabuckthorn Plantatin	20 ha.	215000	
4	Creation of Seabuckthorn Pltn.	05 ha.	173507	
5	Public Awareness Programme		123149	
	Total		1141968	

(Rupees Eleven Lakh Forty One Thousand Nine Hundred Sixty Eight) only

The above activities were carried out duly involving people in general. The awareness programme was executed in extensive manner

3. 12th Finance Commission

The division was also entrusted with the job of implementing activities notified in XIIth Finance Commission during the year 2008-09. The achievement in this scheme is under:

Sl. No.	Item of Work	Achievement		Remarks
		Phy.	Fin.	
1	Dry Stone Wall Fencing	3 km	401197	
2	C.R.S.M. Wall	71.25 cum	142621	
3	Catch Water Drain	350 Rmt	259224	
4	Sausage Wall	309.82 sq.m	83150	
5	DRSM	12.80 cum	321106	
	Total		1207298	

4. Catchment Area Treatment (CAT) Plan of Teesta Stage V, Hydro Electric Project.

The last left maintenance works were executed during the year 2008-09. The following are the figures.

Sl. No.	Item of Work	Achievement		Remarks
		Phy.	Fin.	
1	Maintenance of Nursery & Supervisor	05 Ha.	811262	
2	Maintenance of Afforestation (2005-06)	916 ha.	1205950	
3	Maintenance of Bamboo Plantation	108 ha.	200000	
	Total		2217212	

(Rupees Twenty Two Lakh Seventeen Thousand Two Hundred and Twelve) only.

5. Implementation of Schemes under Sikkim Ecology Fund & Environment Cess Programme

>> Survey of secret groves

6. Training / Awareness / Extension Programme.

A meeting to generate awareness with regard to the environmental matter during the implementation of Hydro Electric Projects in North Sikkim was convened in the Conference Hall of District Hospital, Mangan on 18/04/08. The meeting was chaired by D.C., North. Conservator of Forest (LU&E/Nodal Officer, FCA) Shri C. Lachungpa was kind enough to address the meeting. He pointed out the role of line department for environmental safeguard and social sincerity during the operation of the HEPs. He also informed all the participants to remain vigilant till the projects are over. Almost all the district officials were present. A total participant present in the meeting was 35 (thirty five).

7. National Green Corps (NGC)

A programme of School Eco-Clubs popularly known as the National Green Corps (NGC) is a national programme conceptualized and initiated by the Ministry of Environment and Forests, Government of India. In the North District, Mangan on 4th August, 2008 a meeting was attended in the Conference Hall of Sarva Shiksha Abhiyan Centre. All ACFs, ROs, BOs attended the meeting for dissemination of Posters on GLOBAL WARMING, ENVIRONMENT, EDUCATIVE CALENDAR AND POSTER OF NATIONAL ANIMAL PANDA to all Green Teacher through CRC. In this subject the DFO, LU&E (N) had attended National Conference held at Bangalore on 15th & 16th July, 2008.

8. National Environment Awareness Campaign (NEAC)

This is also initiated by Government of India. In the year 2008-09 the following schools were granted with Rs. 5000/- each for implementation of programme through Workshop & Training and Planting Activities.

- i. Chungthang Government Secondary School.
- ii. Lachen Government Secondary School.
- iii. Lachung Government Secondary School.
- iv. Singhik Government Secondary School.
- v. Mangshilla Government Secondary School.
- vi. Gor Government Secondary School.
- vii. Lingdong Government Secondary School.
- viii. Passingdang Government Secondary School.
- ix. Tingvong Government Secondary School.
- x. Kabi Government Secondary School.
- xi. Phensong Government Secondary School.

9. Meeting with Hoteliers for Garbage Management on 16th May, 2008

Conservator of Forest cum Nodal Officer (LU&E / FCA) and Dr. Banerjee from WWF, Sikkim met with Hoteliers of Lachung at FRH Lachung. In the meeting the concern for garbage management in North Sikkim was discussed. The hoteliers were provided with eco-friendly Gunny-Bags for garbage collection.

10. Environment Calendar

World Environment Day, 2008 has been celebrated in all the ranges of the division. In Mangan, it was celebrated at Government Senior Secondary School Complex. The Chief Guest of the Day was Hon'ble Minister Shri Hissay Lachungpa. All District Officers were present. In Chungthang Sub-division, the day was observed at Government Secondary School. In the programme Army personnel were invited. The function was sponsored by Power Developer Teesta Urja.

11. International Day for Ozone Layer

On 16th September, 2008 the Day was celebrated in the complex of Phodong Senior Secondary School. The local dignitaries and panchayat were present in the meeting. Student from class V to XII were also involved for observing the function. A debate was hosted on the theme "Montreal Protocol – Global partnership for global benefits.

12. World Wetlands Day

This day was celebrated in Conference Hall of Chungthang Sub-Division Administrative Building. The theme of the day was “Upstreams – Downstreams Wetlands – Connects Us All”. The total participants were 40 (forty).

13. Green Mission

This division has extended full time co-ordination to Territorial Division, North for the implementation of Green Mission. Special attention is being given to grow suitable plants in the complex of District Hospital Mangan. Flowering plant like Cherry, China Teak, Jarul, Ornamental Herbs and Shrubs, Tree Fern etc. have been planted out which are coming up vigorously.

Impact of Implementation of Project / Scheme

a) Technology Development Extension & Training

The implementation of TDET Scheme in Rangrang, Chanday and Namok has shown a good impact till date. The public of the project location has appreciated the integrated approach in this scheme to mitigate the problem of landslide in Rangrang. The members of the Technical Advisory Committee of the project have also visited the different project location where activities are done in compact manner. They also have endorsed positive comments in writing which we would envisage in final report.

b) NEAC & NGC

The impact of these 2(two) programmes is also good for improvement and safeguard of the environment through school children. Government Secondary School, Singhik has infact adopted these programme in true spirit. There is separate room for Eco-Club where display of environment related matters are seen sufficiently.

Similarly, the observation of other Calendar Day have good effects among the mass of North District. The implementation of minor scheme like XIIth Finance Commission, Wetland Management Programme also has assisted the Division to tell about the objective of Land & Environment.

Future Perspective Plan for Land Use & Environment Management

Unlike the mammoth landslide there are other major landslides which are to be studied and mitigation measures to be thought of. The case of landslide in the North District is mostly abiotic. The water regime in all aspects is peruse which is one of the abiotic factors of landslide. There are biotic factors also which include faulty method of cultivation. There should be alternative means to deviate the existing system of cultivation. Let there be sufficient newly trained frontline staff for effective implementation of Land Use and Environment Programme.

Impact of Fire Hazard and Loss

Fortunately there was no fire hazard in the year 2008-09 in the North District.

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Land Use & Environment

East Division

I. Physical Target and Actual Achievement

Sr. No.	Name of Scheme	Name of Item	Target		Achievement		Location	Remarks
			Physical	Financial (in lakhs)	Physical	Financial		
1	Sikkim Ecology Fund & Env. Cess Act.	i) Hi- tech Nursery creation at high & low altitudes.	0.5ha. each	12.57	Hi-tech Nursery creation at low & high altitude- 0.5 ha. each	12.54	i) 6 th mile Lagyap RF ii) Jitlang RF, Rangpo	
		ii) Identification & development of sacred groves		1.00	Identified flora & fauna of sacred groves.	1.00	Rumtek, Enchey and Gnor monasteries	
SUB-TOTAL				13.57		13.54		

Sr. No.	Name of Scheme	Name of Item	Target		Achievement		Location	Remarks
			Physical	Financial (in lakhs)	Physical	Financial		
2	Twelfth Finance Commission	i) Sausage wall	54 cum	1.03	85.85 cum	1.02	1.Pakyong, Ganchung 2.Raley, Samdong	Work done in private land.
		ii) CRSM wall 1:4:8	105.26cum	2.00	105.26 cum + extra work of 6.49cum= 111.75cum	1.95	1. Chandmari Shiv Mandir 2.Pvt. Holding in Nazitam 3.Upper Chandmari & Forest colony.	Out of total, 11.36cum work was done in private land and 12.97 cum work in community land (Chandmari Shiv Mandir). Rest was done in forestland. Extra works were executed from the 10% contractor's profit .
		iii)CRSM wall 1:4:8	52.29cum	1.48	52.29cum	1.48	Nimatheeng Jhora, Sichey	
		iv)Stone wall fencing	2 km	8.92	2 km + extra work of 200 Rm= 2.20 km	8.92	1.Bakthang RF. 2. 7 th Mile RF	1 km each at Bakthang RF and 7 th Mile RF. Extra works were also executed from the 10% contractor's profit .
		v) Regeneration of other degraded forest areas	10 ha.	3.00	10 ha. + extra work of 2.20 ha. = 12.20 ha.	2.26	Bakthang RF	Maintenance works are to be done that is why the total financial target has not been achieved.
		vi) a) Catch water drain	46.85. cum	3.56	112rm+ extra work of 8.80rm=120.80rm having 60cmht.x45cm width	2.93	Upper Chandmari	Done in forestland above Chandmari. Extra works were executed from the 10% contractor's profit.
		b)Plum concrete wall			15.90cum	0.55	Baluwakhani, Forest colony	This additional work was done from the fund allotted for catch water drain.
SUB-TOTAL				19.99		19.11		

Sr. No.	Name of Scheme	Name of Item	Target		Achievement		Location	Remarks
			Physical	Financial (in lakhs)	Physical	Financial		
3.	Wetland Conservation & Management	i) Creation of Hippophae Nursery	0.5 ha.	2.83	0.5ha.	1.28	Tsomgo	The target was fixed as per the previous schedule of Forest Deptt.. The nursery being temporary one, total financial target could not be achieved. Labour payment for maintenance from April to July for two labours to be paid.
			1.57ha.	2.83	0.5ha.	1.28	8 th mile Lagyap nursery for Phedang wetland	The target was fixed as per the previous schedule of Forest Deptt.. The nursery being temporary one, total financial target could not be achieved. Labour payment for maintenance from April to July for two labours to be paid.
		ii) Silt retention structures (Construction of hand packed stone wall)	Tsomgo - 500 cum	8.78	499.69+ 49.96 (10%c.p.)=549.65 cum	8.78	Tsomgo wetland complex	49.96cum of extra work has been done from 10% contractor's profit therefore physical achievement is more than the target.
			Phedang-500cum	8.78	499.69+ 49.96 (10%c.p.)=549.65 cum	8.78	Phedang wetland complex	49.96cum of extra work has been done from 10% contractor's profit therefore physical achievement is more than the target.
		iii)Livelihood programme- Yakdung preperation	Tsomgo wetland	1.00	Yak dung cakes were prepared involving members of 75 households at Tsomgo.	1.00	Tsomgo complex	Local public were involved in livelihood programme to develop alternative source of income. Yak dung cakes also supplement fuel wood requirement of the locals thereby minimizing the dependence on forest.
			Phedang wetland	0.50		0.50	Phedang complex	Local public were involved in livelihood programme to develop alternative source of income. Yak dung cakes also supplement fuel wood requirement of the locals thereby minimizing the dependence on forest.
SUB-TOTAL			24.72		21.62			

2. Role of Community Participation and their Response

Community participation was good in all the works. Locals were keen on implementation of various activities.

3. Number of Training, Awareness and Extension Programme

During this financial year trainings could not be conducted. Awareness programmes were carried out under NEAC Scheme in 22 different schools and theme was 'Biodiversity Conservation'.

4. Celebration of Environment Calendar

World Environment Day was celebrated at Aritar- Dalapchand on 5th June 2008 in collaboration with WWF, Deorali, Gangtok by tree planting; organizing different competitions for school children like drama; conducting *ex tempo* quiz competition; organizing talks on importance of forest in conservation and protection of ecology and environment, Global Warming and its effects etc.

World Wetland Day was also celebrated involving local public of Tsomgo by conducting a cleanliness drive and delivering a talk on the importance of wetland. Locals/Tourists and other agencies were sensitized against the use of plastics/plastic bags (package).

5. Impact of Implementation of Projects/Schemes:

- i. People are becoming aware of the need for conservation of environment and ecology.
- ii. Seasonal employment generation for locals.
- iii. Check of soil and water erosion and thereby reclaiming degraded lands and improvement of water regime.
- iv. Aware of importance of wetlands conservation.
- v. Restoration of degraded and landslide prone areas.
- vi. Protection of public properties.
- vii. Minimization of dependence on forest for fuel wood.
- viii. People are coming forward for protection and preservation of forest, wildlife and water bodies.

6. Number of RTI application received and manner of disposal

Two numbers of applications were received during the year and are in process.

7. Future Perspective plan for Land Use & Environment Management

- i. More awareness campaigns will be organized under NEAC, Wetland Conservation and CESS schemes.
- ii. Celebration of environment calendar.
- iii. Plantations in different temples and monasteries with fencing to develop the sacred groves and sensitize religious leaders and followers of the monastery and temple under Sikkim Ecology Fund & Env. Cess.
- iv. Restoration of slip areas.
- v. Pollarding of Alnus crop for studying its effect on landslide stabilization and developing a model.
- vi. Raising experimental plots with fire resistant species, fruits, fodder for developing a model plantation in fire prone areas, habitat improvement for animal biodiversity.
- vii. Maintenance of Hi-Tech Nurseries under CESS.
- viii. Different works involving Watershed management, soil & moisture conservation, erosion control measures, rehabilitation of endangered bird biodiversity, beating of lakes, plantation of hippophae, in-situ conservation of endemic vegetation, research and development etc. to be carried out under Management & Conservation of wetlands in East Sikkim.

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Land Use & Environment

South Division

I. PHYSICAL & FINANCIAL ACHIEVEMENT FOR TREATMENT OF LANDSLIDE AND EROSION CONTROL UNDER TDET PROJECT WITHIN SOUTH LAND USE & ENVIRONMENT DIVISION DURING THE YEAR 2008-09

Sl. No.	Activities	Target		Achieved		Location
		Physical (in Hac)	Financial (Rs. in lacs)	Physical (in Hac)	Financial (Rs. in lacs)	
1.	G.I. Sausage wall with 1:2:4 PCC Lining	48 mtr	3.07	48 mtr	3.09	Mamring, South Sikkim.
2.	Soil & Moisture Conservation	32 ha	10.56	32 ha	10.56	Lower Donok Slip – 04 ha Turung Suminkhor. – 03 ha Nalam (water source area) – 03 ha Yabandanra (Upper Pomphok) – 03 ha Bokrong- Katang – 04 ha Nagi (around lake) – 03 ha Ruchung slip – 02 ha Lower Kolbong – 04 ha Turung Slip – 06 ha

Sl. No.	Activities	Target		Achieved		Location
		Physical (in Hac)	Financial (Rs. in lacs)	Physical (in Hac)	Financial (Rs. in lacs)	
3.	Afforestation	50 ha	10.17	50 ha	10.17	Mamring Kopchey – 03 ha Bimbong slip – 07 ha Donok slip – 03 ha Suminkhor – 06 ha Turung (below Sec. School) – 05 ha Tek – 03 ha Palitam – 04 ha Nagi Pokhari compound – 04 ha Upper Norok slip – 02.50 ha Thokrey slip – 06 ha Kateng slip – 06.50 ha
4.	Maintenance of Afforestation	100 ha	3.70	100 ha	3.70	Donak – 30 ha Turung – 50 ha Aley – 05 ha Nagi – 06 ha Mamring – 03 ha Maneydara – 06 ha
5.	Bamboo plantation	42 ha	10.79	42 ha	10.79	Lingkhim Bimbong slip – 05 ha Suminkhor – 03 ha Kanam Slip – 02 ha Namthang Kolbong – 05 ha Phong – 04 ha Pompok (Basainy slip) – 06 ha Kateng slip – 08 ha Gairygoan slip – 07 ha Turung slip – 02 ha

Sl. No.	Activities	Target		Achieved		Activities
		Physical (in Hac)	Financial (Rs. in lacs)	Physical (in Hac)	Financial (Rs. in lacs)	
6.	Bally Benching	12 ha	2.98	12 ha	2.97	Mamring – 03 ha Bimbong – 02 ha Kateng – 04 ha Pomphok – 02 ha Turung – 01 ha
7.	Application of Geo Synthetic and polymers	5000 sqm	9.25	5000 sqm	9.24	Kateng – 3000 sqm Pomphok – 1000 sqm Turung Donak – 1000 sqm
8.	Regrading of Slope	7500 cum	4.13	7500 cum	4.13	Turung – 1500 cum Donak – 1000 cum Pomphak – 1000 cum Katang – 3500 cum
9.	Anchoring / Shoteeting	80 mtr	5.20	80 mtr	5.20	Turung slip – 80 mtr
10.	Supervisors	2 Nos.	0.72	2 Nos.	0.72	Kateng- Pomphok – 1 No. Turung- Donak – 1 No.
11.	Administrative Overheads i/c Spill over of 2007-08	-	6.39	-	6.39	
	Total Beneficiaries contribution		66.96 (-) 2.50 64.46		66.95 (-) 2.50 64.45	

II. DETAILS OF WORKS CARRIED OUT DURING 2008-09 UNDER 12TH FINANCE COMMISSION GRANTS WITHIN SOUTH LAND USE & ENVIRONMENT DIVISION.

Sl.No.	Activites	Expenditure (Rs. in Lacs)	Location
1.	Construction of Catch water drain	0.98 lakhs	Charcharey (Salghari R.F. South Sikkim) – 13 mtr

iii. NURSERIES

Sl. No.	Division	District	Location	Area (in ha)	No. of Labour
1.	Land Use & Environment	South	Mamring	1(one) ha	5 (five)

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Land Use & Environment

West Division

Details of works carried out during 2008-09 under landslide and erosion control under TDET scheme in West Sikkim

Sl.No.	Activities	Target		Achieved		Location
		Phy	Fin	Phy	Fin	
a.	Afforestation	75 Ha	15.25	75 Ha	15.25	Pipaley, Salley, Rangsang
b.	Bamboo Plantation	45 Ha	11.56	45 Ha	11.56	-do-

Physical and financial Achievement for Treatment of Landslide and Erosion Control under TDET Project during 2008-09

a.	SMC	54 (Ha)	17.97	54 Ha	17.97	Pipaley, Salley
b.	Balley Benching	10 Ha	2.48	10 Ha	2.48	Mangtang, Salley
c.	G.I. Sausage with PCC lining	160 RMT	10.23	160 Rmt.	10.23	Salley, Mangtang, Rangsang
d.	Regarding slope	7500 m ²	4.12	7500 m ²	4.12	Salley, Rangsang
e.	Application of Geosynthetic	5000 m ²	9.24	5000 m ²	9.24	Salley, Pipalley, Rangsang.
f.	Anchoring/Shock reting	42 mtr.	2.80	42 mtr.	2.80	Salley
g.	Sowing dibbling Broadcasting	29.5 Ha	3.56	29.5 Ha	3.56	Piplley, Salley, Mangtang, Rangsang

Details of works carried out during 2008-09 under 12th Finance Commission Grants.

a	CRSM Wall	44.72 rmt.	0.84 Lakhs	44.72 rmt.	0.84 Lakhs	Singlek slip
b	Catch Water drain	14 rmt.	1.05 lakhs	14 rmt.	0.84 Lakhs	Singlek slip

Nurseries

Sl. No	Division	District	Location	Area (in Ha)	No.of Labours	-
a	West Land Use & Environment	West	Gyalshing	2 Ha	9	-
b	West Land Use & Environment	West	Sumphu	1.20 Ha	6	-

Activities done under Conservation and Management of Khecheopalri Wetland in West Sikkim-2008-09

Sl.No.	Activities	Target		Achieved		Location
		Phy	Fin	Phy	Fin	
a.	Micro planning and preparation of management action plan and annual plan operation	1	0.30 Lakhs	1	0.30 Lakhs	Khecheopalri
b	Survey and demarcation	2 Km	1.00 Lakhs	2 Km	1.00 Lakhs	Khecheopalri
c	Fencing (Stone wall fencing)	½ Km	3.00 Lakhs	½ Km	3.00 Lakhs	Khecheopalri
d	Constructed of H.P. Wall inside G.I.Sausage	40 mtr.	2.20 Lakhs	40 mtr.	2.20 Lakhs	Khecheopalri
e	Maintenance of Nursery	0.60 Ha	1.10 Lakhs	0.60 Ha	1.10 Lakhs	Khecheopalri
f	Awareness programme for education and community participation.	3	0.90 Lakhs	3	0.90 Lakhs	Khecheopalri
g	Avenue plantation with bamboo baskets	½	0.20 Lakhs	½	0.20 Lakhs	Khecheopalri
				Total	8.70 Lakhs	Khecheopalri

(Rupees Eight Lakhs Seventy Thousand) only

Celebrations of Environment Calendar 2008-09:

- Celebration of Earth Day 2008 at Sardong J.H. S on 24/4/2008.
- Celebration of Environment Day 2008 at Darap Sec. School on 5th June.
- Celebration of Wetland Day 2008 on 2/2/2009a t Phurchachu hot spring/Khecheopalri. D.F.O, A.C.F & R.O & other staff attended the programme and delivered speeches regarding for Environment.
- Sikkim State Green Mission 2008-09 DC (West) committee had entrusted S.G.M work as follows:
 - a) DFO(Land Use) - Hee-Bermiok constituency maintenance work plus 3 kms new creation work.
 - b) A.C.F (Land Use) - Rinchenpong Constituency.

NEAC

Meeting with Headmasters and Green Teachers of 23 Nos. of Sec School of West District was conducted in the division office on 19th May 2008 and release the NEAC fund for Rs.1,15,000 @ Rs.5,000/- each school. All the Headmasters were requested to submit U.Cs. with photographs depicting their work progress.

Ozone Layer Day 2008

We organized and celebrated International Ozone Layer Day on 16th September 2008 at Rumbuk Junior Secondary School in West Sikkim. During the day proper awareness and sensitization of local community on subject were also conveyed to the local students, panchayat and general public.



ENVIS CENTRE SIKKIM

On Status of Environment & Related Issues

Annual Report 2008-09

(1st April 2008 to 31st March 2009)



Side view

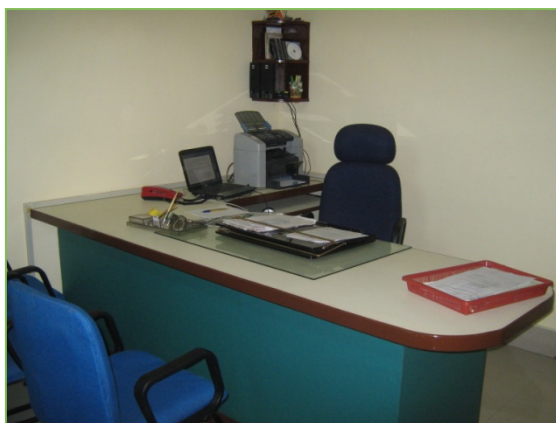
1. ENVIS Center Infrastructure

1.1 Accommodation for the Center

- ENVIS Centre has been provided a well furnished infrastructure with standard office cubicles to suite the nature of the work. The Rooms (Room No: 1101/1102) for ENVIS Centre have been renovated into strengthen the work environment.
- ENVIS Center Sikkim since its inception has been very efficient and has shown steady progress in its activities. It has been fully established as a Centre to host several environmental information with awareness and concrete action driven programmes. The centre's activity is a boost to the state like Sikkim and has been a data warehouse with voluminous information being centralized in the state to meet the requirements of schools, colleges, institutions and several stakeholders. Hence, the department has renovated the office of ENVIS Centre to further encourage and promote its activities to higher standards.



Anterior view



Sr. Programme Officer's Desk



Cubicles for staff

- The Centre also has a Library (*Room No. 1105*) which is a repository of about 1000 old books/reports/articles/journals/newsletters etc. The visitors are hence provided the facility to explore the resources of the centre free of cost.



ENVIS Library

- ENVIS Centre also maintains and updates the bulletin board with latest newspaper clips and publications



ENVIS Bulletin Board

1.2 Deployment of Required Manpower

ENVIS Centre Sikkim is functioning under the over all administration of the PCCF-cum-Secretary, Forest, Environment & Wildlife Management Department with the supervision and guidance of Additional PCCF and Chief Conservator of Forests of Land Use & Environment Circle. The day to day affairs of the ENVIS centre are being managed by the Chief Conservator of Forests, Land Use & Env./ FCA, who is also the Programme Coordinator for ENVIS Centre Sikkim.



C. Lachungpa, IFS
Programme Coordinator-cum-
 Chief Conservator of Forests (Land Use & Env./ FCA)

➤ Number and Details of Personnel Working in the ENVIS Centre:

i.	Sr. Programme Officer @ Rs.14,960/- p.m (consolidated pay). Date of Appointment : 17 th April 2006 Mr. Rajen Pradhan <i>B.Tech (Computer Engg., RS/GIS) with three years experience in environment information technology.</i>	
ii.	Programme Officer @ Rs.10,120/- p.m (consolidated pay) Date of Re-appointment : 17 th May, 2008 Ms. Sandhya Pradhan <i>B.Sc (Botany), M.Sc (Anthropology)</i>	
iii.	Programme Assistant @ Rs. 10,120/- p.m (consolidated pay). Date of Appointment : 18 th August, 2006 Mr. Laxuman Darnal <i>PG (Diploma) in Computer Sc.</i>	
iv.	Data Entry Operator To be Appointed	- - -

Note: As directed by the Ministry of Environment & Forests, Government of India vide D. O. No. 11/GC/2008-ENVIS dated 20th November 2008, Sikkim State Government has re-designated the post of Officers and Staffs under ENVIS Centre vide Notification No. 1365/FEWMD dated 20th March 2009. (**Notification enclosed**)

1.3 Facilities Provided by the Host Organization

The Department of Forest, Env & W/L Management provides the following facilities to the center.

- Internet Connection (*Through State NIC- RF*)
- Tele-Fax Connection
- Standard office infrastructure

1.4 Number of Hard-wares / Soft-wares Procured

No procurement of additional hardware/ software during the FY 2008-09. The center holds the following list of hardware/ software since inception.

Hardware

- Two Desktop Computer Systems with UPS each
- Two LaserJet Printers
- One Multifunctional Color Inkjet Printer
- One Flat Bed Scanner
- One External CD Burner
- One Ethernet Switch
- One Grimmer Tool
- One Telephone

Software

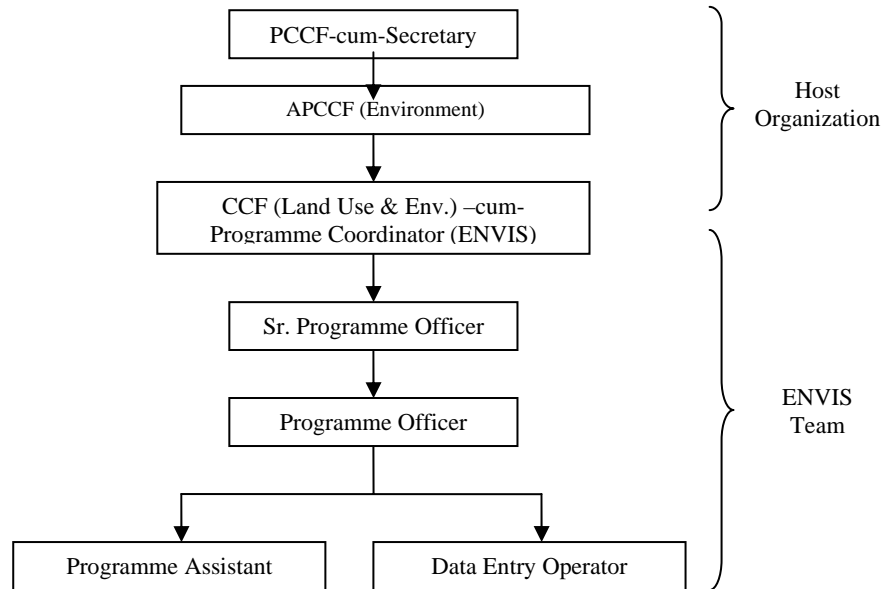
- Windows Operating System (XP Professional SP2)
- Ms Office Application Package
- Desktop Publishing Package (Adobe, CorelDraw)
- Database Application Package (SQL Server 2005)
- Anti-Virus Packages (Norton, AVG, McAfee)
- VPN Software
- FTP Software
- Dreamweaver Package
- Application Development Packages (HTML Editor, ASP Editor, Visual Basic, Visual Studio .Net, etc.)

1.5 Reprography Facilities Available

One Multifunction laser Printer/Copier/Fax machine.

1.6 Working Environment

The ENVIS team in Sikkim considers the following hierarchy in its effort in collection, collation, storage and dissemination of Environmental & related information.



* *Host Organisation: Forest, Environment & Wildlife Management Department
Government of Sikkim*

The ENVIS Centre is also in regular interactions with the other divisions of the host organization. Above all, the working environment within the ENVIS centre so far has been highly productive and appreciated by the host organization.

ENVIS Center Sikkim has also been assisting the State Environment Agency in implementing MoEF's (CSS) programmes such as National Environment Awareness Campaign (NEAC), National Green Corps (NGC) and Van Vigyan Kendra (VVK).

2. Homepage and Website Development

2.1 Development of Homepage

- Placed below is a snapshot of the homepage to our website. This homepage has been developed considering efficient graphical user interface (GUI). The efficiency of interactivity can be reflected with its provided menus and links.
- The website (URL: www.sikennis.nic.in) was re-structured to provide better flexibility and reliable flow of data.



Before



After re-structuring

(Web URL: www.sikennis.nic.in)

2.2 Development of Website with URL

The website of our center can be accessed through the URL: www.sikennis.nic.in

Email ID : sik@envis.nic.in

The Development tools are as follows:

Front End : HTML, ASP, ASP.Net

Back End : Ms Access 2000 Database

Tool Used : Ms FrontPage, Visual Studio.Net, Adobe Photoshop 7.0

2.3 Linkages of ENVIS Websites

Through our website, we provide links to other ENVIS centers throughout the country. We also provide linkages to both national and international websites for environment and related information. These linkages can be accessed through the *RELATED LINKS* menu that appears on the lower left column of the menu list.

2.4 Accessibility of Website

The contents of the website are easily accessible owing to its efficient GUI. The menus and links on top level (i.e. Homepage) provide easy access to its related contents. Our site also provides its user the advance search to the contents within the site. The advance search can be accessed through the *SEARCH IN OUR SITE* menu that appears on the top level menu list.

2.5 Website Design

The design phase of our website initially went through a series of iterative reviews. Finally, the site was launched in one month's time. The design tools used are listed below:

- Graphics (Adobe Photoshop/ImageReady 7.0)
- Front End (HTML,ASP, ASP.Net)
- Back End (Ms Access 2000)

2.6 Meta Tagging of Web Pages

Meta tags have been used in our web pages in regard to the following:

- To enhance dynamicity using *cache control* and *pragma* attributes.
- To increase search hits with *DESCRIPTION* and *KEYWORDS* attributes
- To indicate the authorship with *Name* and *Content* attribute.

2.7 Frequency of Updation of Contents

The contents of the website are updated on a regular basis. The major updates during 2008-09 are:

- State of Environment Report (<http://www.sikennis.nic.in/soer>)
- Sikkim Environment Regulatory Authority (<http://sikennis.nic.in/era>)
- State Biodiversity Board (<http://www.sikennis.nic.in/ssbb.htm>)
- Sikkim Forest Act 2007
- Sikkim Government Gazette Notifications
- FCA data (<http://www.sikennis.nic.in/FCA.htm>)
- RTI 2005 (<http://www.sikennis.nic.in/RTI/RTI.htm>)
- And several newspaper clips, articles, reports and publications.

2.8 Number of hits of the website

Hits by Month

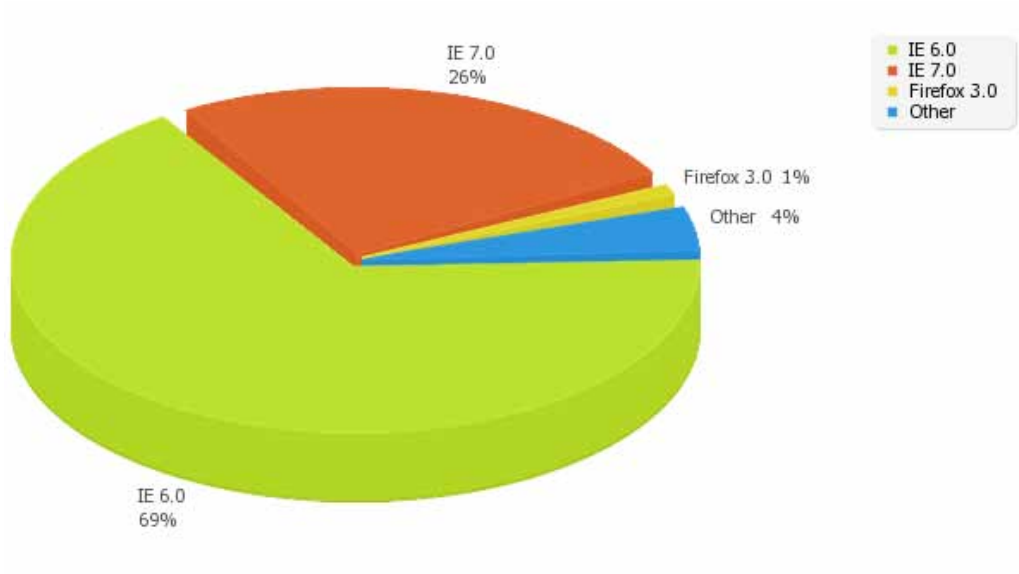
Month	Hits	Percent
April 2008	70	6.0%
May 2008	84	7.2%
June 2008	114	9.8%
July 2008	127	10.9%
August 2008	116	10.0%
September 2008	58	5.0%
October 2008	42	3.6%
November 2008	65	5.6%
December 2008	70	6.0%
January 2009	149	12.8%
February 2009	217	18.7%
March 2009 (As on 5 th day)	169	4.1%
Total Hits in 2008-09	1281	



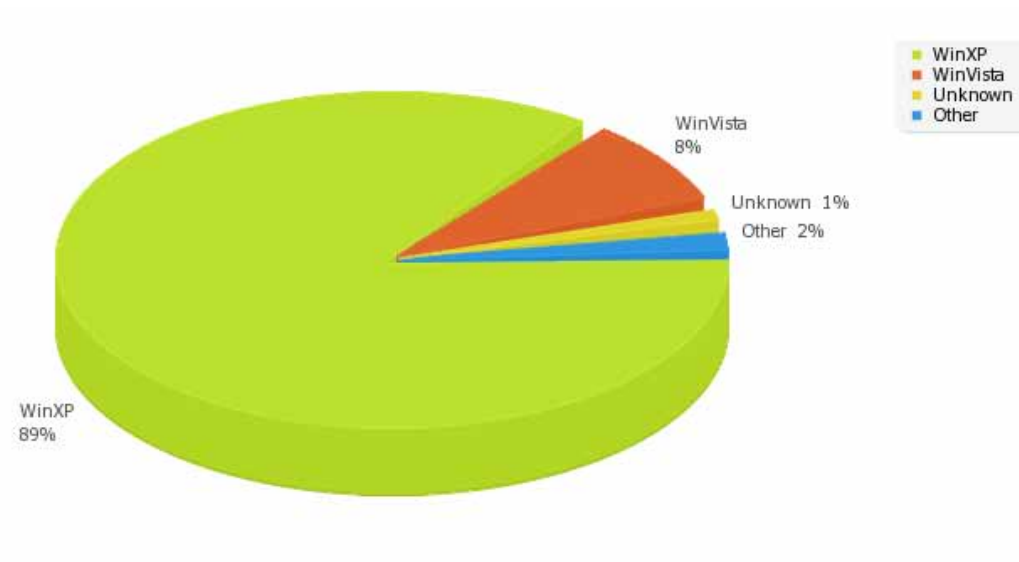
Total Web Hits since inception: (w.e.f 26th May 2006 to 31st March 2009): **7978**

Note: The above figures are actual hits of website homepage only.

Browser Statistics of www.sikenvis.nic.in



Platform Statistics of www.sikenvis.nic.in



2.9 Development of Photo Gallery

The development of photo gallery is assisted by the research officers of the host organization. The photo gallery in our website aims to enhance the richness of state biodiversity. The same can be accessed by clicking on the Photo Gallery thumbnail of the homepage.

Link to State Green Mission Photo gallery:

http://www.sikervis.nic.in/photo_gallery_sgm.htm

2.10 Archives of Publication

Our center is also responsible to maintain an extensive collection of publications (both the host organization and the center itself). So far, the collection of our center is categorized as below:

- ENVIS Quarterly Newsletter
- ENVIS Pamphlets
- National Environment Awareness Campaign
- National Green Corps
- State Green Mission
- Annual Plan Reports
- State of Environment Report.
- State Environment Pollution Report.
- Case Studies of Landslide Treatment & Erosion Control Work in Sikkim
- Newsletters from other network partners.
- Journals of Hill Research.

3. Information contents and methods of dissemination

3.1 Parametric distribution of information (Subject-wise)

Our website categorizes its content into following parameters:

- Sikkim Government Gazette Notifications
- Forest & Forestry
- Biodiversity
- Environment
- Wildlife
- Land & Water
- Ecotourism
- Sericulture
- Forest Department (host organization)
- Legislations

3.2 Methods of Dissemination Processes

- Website (Information are presented in PDF, DOC, and HTML formats)
- Brochures and Pamphlets
- Articles on Local Newspaper
- E-newsletter.
- Personal Communication.
- Hard Copies.
- Softcopy in CDs and via e-mails

4. Data Collection

4.1 Number of data sources identified

Secondary Data Sources:

- Govt. Departments (BSI,GSI, Agriculture, Ecotourism and so on)
- NGOs
- Private Organizations (LANCO, ECOSS, GATI, JPCL and so on)
- Institutes (GB Pant Institute, Sikkim Govt. College and so on)
- Government Reports

4.2 Methodology for collection of data

- Through Concerned Departments – Secondary data
- Abstraction from Journals.
- Field survey.
- Interactions with local community and several resource persons.

4.3 Availability of time-series data

- Census data 1881, 1991 and 2001
- State of Environment Report.
- Annual Reports.

4.4 Percentage of usage of collected data for information and publication

100 % used for regular Government usage.

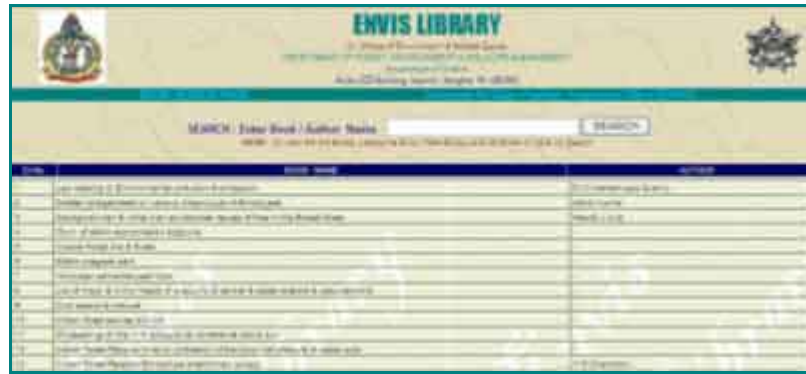
5. Development of Database

Our website currently hosts the following online databases:

- ENVIS Library (Extensive database for environment related books and articles).
- Sikkim Government Gazette Notifications.
- Environmental NGOs in Sikkim.
- Database on National Environment Awareness Campaign in Sikkim
- Eco-Clubs under National Green Corps Programme.
- Database of E-newsletter Subscribers.
- Query Statistics.
- Visitor's Feedback.
- Reports and Publications
- Data on FCA, RTI 2005, Forest & Forestry, Biodiversity, Environment, Wildlife, Land & Water, Ecotourism, Sericulture and so on.

>> ENVIS Centre Sikkim is in a process of development of extensive online database for various floral and faunal species existing in Sikkim. The Centre is working in close coordination with the line departments for the same.

>> Since our centre also hosts department's library comprising more than 2000 books, articles, news letter and so on, the centre has developed an online Library book search database module. (http://www.sikennis.nic.in/library_search1.asp)



Snapshot: Book Search Page

>> ENVIS Centre has developed an intranet database application for handling NEAC and NGC affairs.



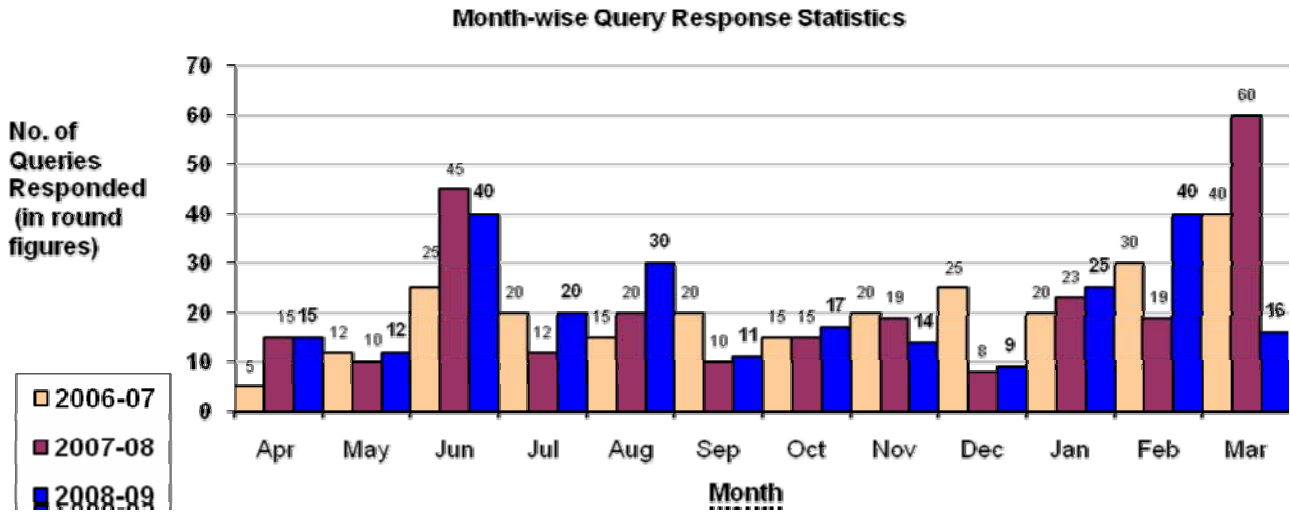
Snapshots

6. Query Answer Service Profile

6.1 Query Response Statistics:

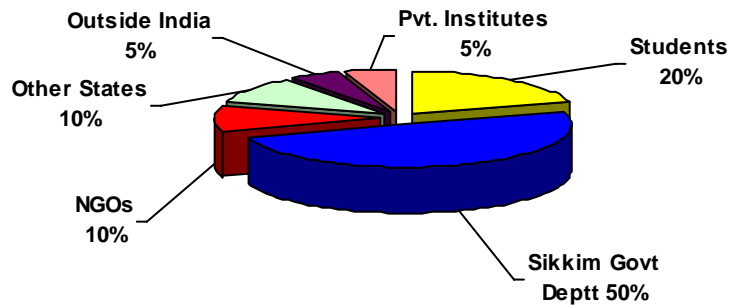
ENVIS Centre Sikkim has gained focus from various government departments, institutes and organizations on several environmental issues. The Centre has received and responded more than 500 informal queries in the year 2008-09.

The month-wise query statistics since inception of the centre is shown below:



The months of March and June show relatively higher query responses owing to the environment occasions like World Forestry day and World Environment Day. December records the lowest queries since the centre is closed for about 15 days due to state holidays.

The distribution of queries is represented as below:



Query response methodology is represented below:

- Hardcopies/ Printed Version : 60 %
- Softcopies/ Electronic version : 30 %
- Verbal communication through proper channel : 10 %

6.2 Feedback services from the users

Our website has an Administrator module that interacts with the users. The feedback from the users is stored in the database which is reviewed by the website administrator on a timely basis.

FEEDBACK from the website readers received so far :

VISITOR'S FEEDBACK

Sl. no.	Date	Name	Address	Email ID	Comments
1.	Sunday, January 04, 2009	Miss. BOB		boby@hotmail.com	hi nice site
2.	Wednesday, November 12, 2008	Mrs. HAIRYMAN	- - -	mysuperhaerr@gmail.com	Not bad... Not bad.
3.	Wednesday, November 12, 2008	Mrs. YAHOOBOT	- - -	yah13oaaa@gmail.com	Nice site, thanks for information!
4.	Saturday, August 23, 2008	Mr. SANJEEV SHARMA	business Director D-45, Panchsheel enclave new delhi	sanjeevsharma@suryan.shdevelopers.com	we want to invest in sikkam and near gangtok for establish a liqure factory, if you can provide the details and how can we get the land from govt and what will be rate of the land approx. and also the procedur to buy land in the name of company.
5.	Monday, June 30, 2008	Mrs. ANJALI SHARMA	Govt. Employee ITA FE WMD	anjali.sharma77@gmail.com	good job done in compiling very resources information in the newsletter. Thankyou for your excellent service.
6.	Thursday, June 19, 2008	Mr. GUTH LEPCHA	Addl. Director of Forests FEWMD, GoS	guthlepcha@gmail.com	Good get up of the publication. Since this is the only newsletter of the Deptt., I suggest that in future issues, the publication will include more about biodiversity resources, flora-fauna, natural resources of the state.
7.	Monday, June 09, 2008	Mrs. YAMINI PRADHAN	Government employee Child Development Project Officer ICDS Office,SJE&WD/W CDD/Pakyong Sub Division,Hospital Road,Pakyong	yaminipradhan22@gmail.com	
8.	Thursday, May 29, 2008	Miss. KUSUM GURUNG	ACF(T) Pakyong	khusdee2005@yahoo.com	Sikkim Forest Statistics,State of Forest Report 2005
9.	Wednesday, May 21, 2008	Mr. RAVINDR ANATH	Director Rural Volunteers Centre, PO-Akajan via Silapathar, Dist Dhemaji, Assam 787059	rvlassam@gmail.com	To know about total environmental statust of the state
10.	Wednesday, May 21, 2008	Mr. PARTHA J DAS	Researcher 50 Samannoy Path, Survey Betola, Guwahati 781028	partha@narmyak.org	Please send two copies of SoE report
11.	Monday, February 18, 2008	Mr. TIKA GURUNG	Govt. Service Data Entry Operator Sc. & Tech, Gangtok	prayas222@yahoo.co.in	Your web site is resourcefull. thankyou you

12.	Tuesday, January 22, 2008	Mr. S VENKAT	Mumbai	sethvenkat@yahoo.com	Please allocate one page to write about the places of interest in Sikkim in your Newsletter.
13.	Tuesday, October 30, 2007	STASIGR		stasigragg@mail.ru	Hello, very nice site, keep up good job! Admin good, very good.
14.	Thursday, September 13, 2007	Dr. ASHOK KUMAR PANDA	Ayurvedic Doctor Research Officer RRI, Tadong	akpanda_06@yahoo.co.in	Kindly input my email id in my article entitled Medicinal Plants of Sikkim in Ayurvedic Practice
15.	Friday, August 31, 2007	Dr. SANTOSH H K. SHAH	Research Birbal Sahni Research Associate Birbal Sahni Institute of Palaeobotany, 53 University Road, Lucknow - 226 007, U.P. India	santoshk.shah@gmail.com	Very interesting and informative website. I found the website is arranged very systematically with updated information about the concern topics. Best wishes
16.	Friday, August 10, 2007	Mr. BIKASH PRADHAN	Engineer Telecom Engineer Darjeeling	pradhan03@rediffmail.com	hi Rajen I would like to congrats u for coming up with such nice website which gives so much information about flora and fauna of a beautiful state Sikkim. keep up da good work.....
17.	Thursday, April 05, 2007	MORGANUS VITUS		morganusvitus@web.de	The site looks great ! Thanks for all your help (past, present and future !)
18.	Monday, November 06, 2006	Mr. DEVEN		deven.isme@gmail.com	Hello
19.	Thursday, September 28, 2006	Mr. LAXUMAN	Govt. Employee IT Assistant ENVIS Centre, FEWMD, Deorali, Gangtok	laxuman200001@rediffmail.com	Testing
20.	Thursday, September 21, 2006	Mr. BIKASH PRADHAN	Engg. Site Technical Engg Ericsson India Ltd.	pradhan03@rediffmail.com	hello, this is your fren...just testing your module
21.	Wednesday, August 02, 2006	Mr. AJIT	Project Engg Sneha Kinetic Power Project Ltd	snehakinetic@rediffmail.com	It is nice reading your site.
22.	Tuesday, July 18, 2006	Mr. RAJEN PRADHAN	Govt. Employee Programme Officer Forest, Environment & Wildlife Management Department	shrestha_kewal@yahoo.com	Testing

Also, the database of ENVIS Centre Sikkim for e-Newsletter holds 87 subscribers.

Sl. no.	Date	Subscriber's Email ID	Sl. no.	Date	Subscriber's Email ID
1	Thursday, March 05, 2009	s_deogawanka@yahoo.co.in	46	Wednesday, December 26, 2007	partapsinghthakur1954@yahoo.com
2	Tuesday, February 24, 2009	saconlib@yahoo.com	47	Tuesday, December 25, 2007	cenpeep_ski@ntpceoc.co.in
3	Saturday, February 21, 2009	nam.tem@hotmail.com	48	Friday, December 07, 2007	sanjaysikkim@gmail.com
4	Monday, February 16, 2009	sarbani_nag23@yahoo.com	49	Saturday, December 01, 2007	charmschem@eth.net
5	Monday, February 16, 2009	Sarbani.n23@gmail.com	50	Friday, November 23, 2007	khusdee2005@yahoo.com
6	Saturday, January 17, 2009	mamaramyar@yahoo.com	51	Wednesday, Nov 21, 2007	sethvenkat@yahoo.com
7	Thursday, January 15, 2009	rohit@mapscon.com	52	Wednesday, Nov 07, 2007	maniitkhanna19652@rediffmail.com
8	Monday, January 12, 2009	pradeepifs@gmail.com	53	Friday, November 02, 2007	karwon_09@yahoo.co.in
9	Tuesday, January 06, 2009	saxena1962@gmail.com	54	Friday, November 02, 2007	thefirm2006@rediffmail.com
10	Sunday, January 04, 2009	khagenm@gmail.com	55	Sunday, October 21, 2007	info@abcsikkim.com
11	Tuesday, December 23, 2008	bibek.nandi@cipla.com	56	Tuesday, October 16, 2007	prakash@iifm.ac.in
12	Tuesday, December 16, 2008	er.jmsingh@gmail.com	57	Monday, October 08, 2007	bikash03@rediffmail.com
13	Friday, November 28, 2008	christian.monnet@gmail.com	58	Monday, September 17, 2007	krishna.chamoli@yahoo.com
14	Saturday, November 22, 2008	ashokchaurasia2000@gmail.com	59	Thursday, September 13, 2007	akpanda_06@yahoo.co.in
15	Friday, November 14, 2008	krishnasharma1980@hotmail.com	60	Sunday, September 02, 2007	sonu_luk@yahoo.com
16	Tuesday, November 04, 2008	tshering.doma.bhutia@univie.ac.at	61	Saturday, September 01, 2007	environment29@rediffmail.com
17	Saturday, October 25, 2008	adh_yadav@yahoo.com	62	Friday, August 31, 2007	kanti.amar@gmail.com
18	Tuesday, October 21, 2008	jk.thakur@kalpanhydro.com	63	Wednesday, August 15, 2007	tobhutia@yahoo.com
19	Thursday, August 21, 2008	amilo_pokh@yahoo.com	64	Wednesday, August 15, 2007	ntbhutia@gmail.com
20	Tuesday, August 19, 2008	tasscee@yahoo.co.in	65	Monday, August 13, 2007	snets07@rediffmail.com
21	Thursday, August 07, 2008	sandhya_p2108@yahoo.co.in	66	Thursday, July 26, 2007	cenpeep_ski@ntpceoc.co.in
22	Wednesday, July 23, 2008	yogem1978attc@gmail.com	67	Friday, July 20, 2007	ganeshjigangtok@indiatimes.com
23	Thursday, July 17, 2008	biren_k_prasad@yahoo.com	68	Friday, July 20, 2007	tshewangsanu@yahoo.com
24	Tuesday, July 15, 2008	greenplanet@sify.com	69	Friday, July 20, 2007	tshewangsanu@yahoo.com
25	Monday, July 07, 2008	pranooj@yahoo.com	70	Thursday, May 03, 2007	vishaka07@yahoo.com
26	Monday, June 23, 2008	sanjaysikkim@gmail.com	71	Wednesday, May 02, 2007	bhutia_garap@yahoo.com
27	Sunday, June 22, 2008	chettrikamal@gmail.com	72	Friday, February 23, 2007	awishcar_skm@yahoo.co.in
28	Thursday, June 19, 2008	guthlepcha@gmail.com	73	Monday, February 12, 2007	dmegejee@gmail.com
29	Tuesday, June 17, 2008	yaminipradhan22@gmail.com	74	Thursday, January 25, 2007	nvchgf@gmail.com
30	Friday, June 13, 2008	lawrencelepcha@gmail.com	75	Saturday, January 06, 2007	udaigurung@yahoo.com
31	Saturday, June 07, 2008	reeju.karunakaran@power.alstom.com	76	Wednesday, January 03, 2007	jkt_27@rediffmail.com
32	Saturday, May 31, 2008	rohit.rasaily@rediffmail.com	77	Friday, December 29, 2006	roopagautam@yahoo.co.in
33	Saturday, May 31, 2008	rohot.rasaily@rediffmail.com	78	Tuesday, December 12, 2006	darwinjrf@yahoo.com
34	Friday, May 23, 2008	sandhya_p2108@yahoo.co.in	79	Monday, November 06, 2006	deven.isme@gmail.com
35	Friday, May 23, 2008	btdJackson5627@who-got-mail.com	80	Friday, October 20, 2006	jumlacerana@yahoo.com
36	Tuesday, May 20, 2008	sandeep_tambe@yahoo.com	81	Saturday, September 23, 2006	stdcsikkim@yahoo.co.in
37	Thursday, April 03, 2008	veeru@lancogroup.com	82	Saturday, September 23, 2006	pkdong2000@yahoo.com
38	Tuesday, April 01, 2008	joythapa@rediffmail.com	83	Friday, September 22, 2006	laxuman200001@rediffmail.com
39	Monday, March 10, 2008	sraos@rediffmail.com	84	Saturday, August 26, 2006	sairaj19@hotmail.com
40	Monday, March 03, 2008	vazhikkal_ranjith@yahoo.com	85	Sunday, August 13, 2006	fasttrack_avi@yahoo.com
41	Wednesday, Feb 20, 2008	abhaymishra@genesisfintec.com	86	Wednesday, August 02, 2006	senthilkumarifs@rediffmail.com
42	Monday, February 18, 2008	prayas222@yahoo.co.in	87	Tuesday, July 25, 2006	ulachungpa@gmail.com
43	Friday, February 08, 2008	santoskh.shah@gmail.com			
44	Sunday, January 20, 2008	ntbhutia@gmail.com			
45	Tuesday, January 15, 2008	sanjaysikkim@gmail.com			

7. Development of Repository

- 7.1 **Number of journals procured on the subject-area** – *about 20*
- 7.2 **Number of periodicals received in the ENVIS Centre** – *about 150*
- 7.3 **Number of journals available in the main library of the host organization** – *More than 100 old collections*
- 7.4 **Usage of journals/periodicals for collating information-** *Frequently used*
- 7.5 **Number of PhD Thesis / Dissertation collected on the thematic areas-** *None*
- 7.6 **Publications received from the other Network Partners-***More than 100*

8. Networking Facilities

8.1 Networking with the host organization

The communication network with the host organization is shown below:

ENVIS Staff → Officer In-charge (ENVIS) → CCF → APCCF → PCCF-cum Secretary

8.2 Intranet facilities

ENVIS center has its local NIC server which can be accessed within the organization through LAN.

8.3 Internet accessibility along with bandwidth

The ENVIS center Sikkim uses the RF Internet connection of 100 MHz provided by the State NIC.

8.4 VPN facilities availed

Our Center also avails the VPN service for Updation of web contents.

8.5 Networking with the ENVIS partners and source information-

Our Centre is in constant touch with local ENVIS Centre on Ecotourism. The Centre is also frequently in communication with other Northeastern ENVIS partners like Assam Tripura, Mizoram and so on.

9. Contribution of the Host Organization

9.1 Percentage of man-hours provided by subject-experts

More than 30% of the Subject Expert of the Department

9.2 Total number of available subject-experts

About 15

9.3 Facilities provided for financial/record management-

The accounts section of the host department keeps close track of ENVIS fund.

9.4 Reviews by Divisional Heads- *Weekly*

9.5 Number of reviews by the head of the organization – *Monthly*

10. Publication/Documentation

10.1 Number of Newsletter published: *Three*



Vol. II Issue: 1

This issue covers notes from various resource persons on *Bamboo Diseases, Ornithological Wealth of Sikkim, Reptiles of Sikkim and Moths of Sikkim*. This issue also highlights state's achievements in Conservation of our Environment. The abstracts of our recent landmark publication '*State of Environment Report*' have also been included along with awareness column to Save Water

Previous Issues



Vol. I Issue: 1

This first issue covers notes on various programmes and events related to environment carried out within the state such as State Green Mission, National Environment Awareness Campaign, Celebrations on Environment, Solid waste Management, Wetlands of Sikkim, Outcome of the United Nations Climate Change Conference at Nairobi, etc.,



Vol. I Issue: 2

This issue covers notes on Needs for Conservation of Bamboo Genetic Resource of Sikkim, Butterfly Article, notes on Threatened Orchid of Sikkim Himalaya, abstract on the Case Study of Landslide Treatment of South Sikkim, activity highlights of Wildlife Week Celebration 2007 and notes on the event of International Flower Festival 2008.

10.2 Form of Publication (Electronic/Print): *Both Electronic and Print*

10.3 Other publications during 2008-09: *Eight Nos.*

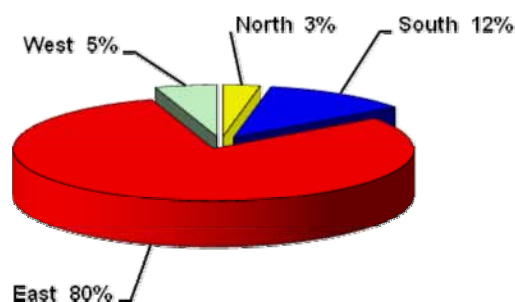
- i. *State of Environment Report 2007*
- ii. *Awareness material (pamphlet) on National Environment Awareness Campaign 2008-09 on the theme "Climate Change".*
- iii. *Awareness material (pamphlet) on National Bamboo Mission*
- iv. *Awareness material (booklet) on Solid Waste Management*
- v. *State Green Mission Phase III Broacher*
- vi. *Report on "Treatment of Land Slide and Erosion Control" in West Sikkim*
- vii. *Booklet on Forest Centenary Celebrations 2009.*
- viii. *Pamphlet on Sidkeong Tulku Bird Park*

The above awareness materials were published in view of the demand and current issues of the state.

10.4 Distribution of coverage of users (in percent) :

Sikkim has four districts namely: *North, South, East and West*. District-wise distribution of coverage of users is shown below.

Districts	North	South	East	West
% of Users	3	12	80	5

**11. Expenditure Profile****11.1 Head-wise Grants received and expenditure incurred during the last two years****2007-08**

Sl. No.	Sanctioned Object Head	Amount Sanctioned (in Rs.)	Expenditure incurred (in Rs.)	Available Balance (in Rs.)
1	Staff	3,84,000	3,84,000	Nil
2	Database development	75,000	50,006	24,994
3	Stationeries/consumables, Maintenance	1,00,000	81,048	18,952
4	Traveling and Training	25,000	17,418	7,582
5	Internet connectivity and AMC	25,000	24,200	800
Total		6,09,000	5,56,672	52,328

2008-09

Sl. No.	Sanctioned Object Head	Amount Sanctioned (in Rs.)	Expenditure incurred (in Rs.)	Available Balance (in Rs.)
1.	Staff	4,22,400	4,16,257	6,143
2.	Database development	75,000	54,692	20,308
3.	Stationeries/consumables, Maintenance	1,00,000	1,00,000	0
4.	Traveling and Training	25,000	0	25,000
5.	Internet connectivity and AMC	30,000	30,000	0
Total		6,52,400	6,00,949	51,451

12. ENVIS Activity Highlights during 2008-09**(1st April, 2008 to 31st March, 2009)**

Sl. No	Particulars	Date
1.	<ul style="list-style-type: none"> ➤ Newsletter Feb-Dec 2007 Published. ➤ Web site optimization (URL: www.sikennis.nic.in) ➤ Collection/ Compilation of time series data, annual reports related to Environment, Forestry, Wildlife, Biodiversity, Land/ Water, Natural Resources, Pollution, Demography, Agriculture, Horticulture and so on from resource departments of the state. 	April '08
2.	<ul style="list-style-type: none"> ➤ State of Environment Report 2007 Published ➤ Data Entry into ISBEID Modules (Demography, Ecology, Forestry, Ecotourism, Livestock, Climate) 	May '08
3.	<ul style="list-style-type: none"> ➤ Event: World Environment Day Observed at Aaritar-Dalepchen, East Sikkim. ENVIS Centre participated. ➤ Event: Distribution of financial grants to the participating NGOs for NEAC 2007-08 on the theme "Biodiversity Conservation". ENVIS centre coordinated the programme and distributed resource materials. ➤ Compilation of Newsletter: 1st quarter. 	June '08
4.	<ul style="list-style-type: none"> ➤ Database development and Web site optimization. ➤ Pamphlets on National Bamboo Mission and State Green Mission prepared. 	July '08
5.	<ul style="list-style-type: none"> ➤ Data Entry into ISBEID Modules (Agriculture, Natural Resources, Forest Resources, Air Pollution, Waste Disposal, Infrastructure) ➤ Compilation of proposals received from various NGOs, Institutes, Organizations for participating in NEAC 2008-09 on the theme "Climate Change" 	Aug '08
6.	<ul style="list-style-type: none"> ➤ Workshop: Sikkim ENVIS Centre hosted ISBEID Workshop for Northeastern ENVIS Centres at Gangtok, Sikkim. 	4 th Sep '08
7.	<ul style="list-style-type: none"> ➤ Workshop: Regional Committee meeting of RRAs for presenting the proposals for implementation of NEAC 2008-09 on the theme "Climate Change" at Guwahati, Assam. Sr. Programme Officer and Programme Assistant attended. 	29 th Sep – 1 st Oct
8.	<ul style="list-style-type: none"> ➤ Compilation and designing of EIA & EMP of Rangit II HEP (60 MW). ENVIS Centre assisted the host department and Sikkim Power Ventures Pvt. Ltd. in preparation of the reports. 	Oct '08
9.	<ul style="list-style-type: none"> ➤ Field survey & Case Study: Technical Project Associate/Programme Officer in coordination of the DFO, Implementing Agency, conducted field surveys of landslide areas in West Sikkim for preparation of a case study on Treatment of Landslide & Erosion Control under TDET Project – West Sikkim. 	Oct '08 to Dec '08
10.	<ul style="list-style-type: none"> ➤ Compilation of data for the preparation of booklet on Forest Centenary Celebrations. ➤ Newsletter Vol. II Issue 1 Published highlighting the following achievements: <ul style="list-style-type: none"> ➤ Sikkim State Awarded Rashtirya Nirmal Gram Puraskar for being the first State in the country to achieve 100 percent sanitation. ➤ Sikkim State awarded 2nd Rank in the overall Environmental Sustainable Index (ESI) by the Centre for Development Finance. Sikkim ranked 1st in the Performance in Landuse and Natural Resources. 	Jan '09
11.	<ul style="list-style-type: none"> ➤ Workshop: Sikkim ENVIS organized a sensitization workshop for NGOs and Schools on National Environment Awareness Campaign 2008-09 on the theme "Climate Change" at Gangtok, Sikkim. ➤ Event: ENVIS Centre participated in the Sikkim Forest Centenary Celebration at Rabdenste, West Sikkim. Resource materials were distributed to the mass at large. 	11 th Feb '09 21 st Feb '09
12.	<ul style="list-style-type: none"> ➤ Preparation of report on the implementation of National Environment Awareness Campaign 2008-09 on the theme "Climate Change". ➤ Compilation of events/news items for preparation of Newsletter. ➤ Report on Treatment of Landslide & Erosion Control Work in West Sikkim prepared 	Mar '09

**Note: Besides the activities stated above, ENVIS Centre has been regularly collecting, compiling and updating in suitable formats for storage and dissemination of acquired information in the website www.sikennis.nic.in*

** ENVIS Centre has also been contributing technical support to the department to its caliber.*

13. Proposed Work Plan for the Current Financial Year 2009-10

Sl. No	Particulars
1	Development of suitable database formats for accessing key environmental information such as natural resources, biodiversity and so on. Extensive development of spatial and non-spatial database through the application of Remote Sensing data & Geographical Information System for inclusion in the SoE Atlas.
2.	Like previous years ENVIS Centre will assist the Member Secretary of State Environment Agency in awareness activities under NEAC and NGC programmes.
3.	<ul style="list-style-type: none"> ➤ To host environment awareness programmes in selected schools of all four districts. ➤ To prepare and distribute environment awareness materials (posters/ banners/ pamphlets/broachers etc.) to all Government Schools of Sikkim. ➤ To prepare and distribute audio-video awareness CD as education material for use in school. ➤ To prepare and distribute awareness stickers on 'Climate Change' for tourist and taxi vehicles of the state. ➤ To observe World Environment Day with the host department.
4.	Identification of resource areas and field survey for the collection of primary data relating to Landslide treatment and erosion control work in North District. Two districts, namely South and West Districts have already been studied on pilot basis and reports on each have already been prepared.
5.	Re-structuring of dynamic web modules from ASP technology to .Net technology.
6.	To publish newsletters in both local language (Nepali) and in English.
7.	To publish environment news items in local newspapers in a weekly basis.
8.	Development of online database application for storage of district wise data and information relating to Forest, Environment and Wildlife of Sikkim.
9.	Optimization/Re-structuring of web contents and photo gallery on environmental issues of the state.
10.	To collect information on various environmental issues such as, Global Warming, Climate Change, Pollution, Landslides, Wastelands and so on for wider information and preparation of second issue of SoE Report.

14. Self Appraisal/Justification by the ENVIS Centre

The existence of ENVIS itself is a boon to the state like Sikkim. ENVIS Centre since its inception in the state has contributed the host department and the state in its endeavour towards sustainable development. The centre has been actively involved in several awareness programmes with concrete action-oriented drive and has reached schools and remote places of the state. The centre has provided technical support in preparation of various reports like; SoE, EIA & EMP of Hydro Electric Projects, Catchment Area Treatment Plan and also has been implementing National Environment Awareness Programmes with the state environmental NGOs. The voluminous resource available at the centre is a boost to many students, researches, stakeholders and other institutions. The centre has a great potential owing to its youthful and hardworking staff. The host department has already taken the initiative of upgrading and strengthening the centre with good infrastructure to promote the standards of the center itself.